ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)										999
BUDGET ACTIVITY 5 - Engineering and Manufacturing [· - · · · · · · -								PROJECT D586	
COST (In Thousands)	FY1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
D586 Air Traffic Control	6750	1724	198	2035	2204	2306	2594	2698	0	Continuing

A. Mission Description and Budget Item Justification: This program element funds continuous efforts for the development of modernized tactical and fixed base Air Traffic Control (ATC) systems that will enhance and ensure total aviation safety in both the tactical and strategic ATC domains. Primarily funds the total system integration and qualification for the Air Traffic Navigation Integration Coordination System (ATNAVICS), which provides urgently needed, highly mobile precision/non-precision approach and landing capability, reliable communications, and extensive flight following capability in adverse and hostile weather conditions. ATNAVICS supports the tactical aviation warfighter at remote landing zones, pickup zones and temporary fixed wing and helicopter operating/landing areas worldwide. This program element ensures the completion of the EMD phase for ATNAVICS. Also funded in this program element is the development of the Mobile Tower System (MOTS), a tactical mobile tower designed to replace an antiquated and obsolete legacy system. A Non-Developmental Item (NDI), MOTS will be equipped with modernized and secure avionics to ensure highly reliable and consistent tactical aircraft communications at semipermanent landing areas.

FY 1998 Accomplishments:

ATNAVICS

6479 Finalized hardware and software prototype development and completed system integration

• 271 Developmental and Operational Testing

Total 6750

FY 1999 Planned Program:

ATNAVICS

• 1586 Close out EMD phase, conduct final operational testing, transition to production phase

MOTS

50 Conduct Market Analysis

• 50 Suitability Study, evaluate cost savings data

Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs.

Total 1724

FY 2000 Planned Program:

MOTS

1733 Procure prototype MOTS Test Article for Developmental Testing

• 248 Conduct developmental/operational testing

Total 1981

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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)

DATE

February 1999

BUDGET ACTIVITY

PE NUMBER AND TITLE

PROJECT

5 - Engineering and Manufacturing Development

0604633A Air Traffic Control

D586

FY 2001 Planned Program:

MOTS

• 1822 Complete EMD phase for MOTS

• 213 Transition to Production Phase

Total 2035

B. Program Change Summary	FY 1998	FY 1999	FY 2000	FY 2001
Previous President's Budget (FY 1998 PB)	4533	1737	2048	2113
Appropriated Value	4705	1737	20.0	2110
Adjustments to Appropriated Value		`		
a. Congressional General Reductions	-172	-`13		
b. SBIR / STTR	-109			
c. Omnibus or Other Above Threshold Reduction	-36			
d. Below Threshold Reprogramming	+2362			
e. Rescissions				
Adjustments to Budget Years Since FY 1998 PB			-67	-78
Current Budget Submit (<u>FY 2000/2001</u> PB)	6750	1724	1981	2035

Change Summary Explanation: Funding: (FY 98) +2362 was reprogrammed from Project D496 to cap ATNAVICS EMD contract.

C. Other Program Funding Summary	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	То	Total
APA AA0050 - Air Traffic Control									Compl	Cost
	7801	5675	8760	38068	29015	34077	35249	20542	Cont'd	Cont'd

D. <u>Acquisition Strategy:</u> Procure an ATNAVICS prototype through a Cost Plus Fixed Fee (CPFF) contract for integration of electronic/radar components to include design, development, and testing of an integrated prototype over a three year period. Furthermore, the strategy allows continued concept exploration and design definition of the MOTS.

E. Schedule Profile	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
ATNAVICS System Performance	1-4 Qtr							
ATNAVICS Developmental and Operational Testing	3-4 Qtr	1-2 Qtr						
Close out ATNAVICS EMD, Prepare for Production Phase		1-2 Qtr						

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ARMY RDT&E BUDGET IT	DATE February 1999									
BUDGET ACTIVITY		PE NUMBER AND TITLE						1 0.0.0.0.1		
5 - Engineering and Manufacturing Developn	nent	ent 0604633A Air Traffic Control							D586	
E. Schedule Profile	<u>FY 1998</u>	FY 1999	FY 2000	<u>FY 2001</u>	FY 2002	FY 2003	FY 2004	FY 2005		
MOTS Market Analysis (State of Art Syst Solution)		1-2 Qtr								
MOTS Evaluation and Suitability Study/Cost Savings Data		1-4 Qtr								
Procure Prototype MOTS			1 Qtr							
Conduct MOTS Developmental and Operational testing			1 Qtr							
Complete EMD Phase for MOTS				1 Qtr						
P3I Initiatives/Programs for Tactical Systems (ATNAVICS, FAIS, MOTS)					1-4 Qtr	1-4 Qtr	1-4 Qtr	1-4 Qtr		

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BUDGET ACTIVITY 5 - Engineering and		UMBER ANI 04633A	•		PR	PROJECT D586						
	la			FW 1000	EW 1000	EX. 2000	EX. 2000	ET. 2001	EV 2001	G . m	m . 1	T
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Targe Value o Contrac
a. ATNAVICS	CPFF	Ravtheon *	26100		Date		Dute		Dute	0	26100	26100
b. MOTS	Various	Various		58	3 Qtr	1435	1Qtr	1472	1 Qtr	0	2965	
c. ATNAVICS GFE	Reqn	Various	392		,					0	392	
Subtotal Product Development:			26492	58		1435		1472			29457	26100
Remark: * Full address is: Ray	theon Co., Ray	theon Electronics System	s, 1001 Bos	ton Post Ro	., Marlboroi	ugh, MA 01	752					
II. Support Costs	Contract	Performing Activity &	Total	FY 1999	FY 1999	FY 2000	FY 2000	FY 2001	FY 2001	Cost To	Total	Targe
	Method & Type	Location	PYs Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Complete	Cost	Value o
a. ATNAVICS	MIPR	AMCOM/CECOM	2155	643	1-2 Qtr					0	2798	
b. MOTS	Various	Various		25	3 Qtr	148	1 Qtr	213	1 Qtr	0	386	
Subtotal Support Costs:			2155	668		148		213			3184	
III. Test and Evaluation	Contract	Performing Activity &	Total	FY 1999	FY 1999	FY 2000	FY 2000	FY 2001	FY 2001	Cost To	Total	Targe
	Method &	Location	PYs Cost	Cost	Award	Cost	Award	Cost	Award	Complete	Cost	Value o
	Туре				Date		Date		Date	•		Contrac
a. ATNAVICS	MIPR	TEXCOM/TECOM *	271	800	1-2 Qtr					0	1071	
b. MOTS	TBD	TBD				248	1 Qtr	200	1 Qtr	0	448	
Subtotal Test and Evaluation:			271	800		248		200	7		1519	
Remark: * TEXCOM is locate	ed at Fort Hood	d, TX. TECOM is located	at Aberdeen	Proving Gr	ound, MD.							
IV. Management Services	Contract	Performing Activity &	Total	FY 1999	FY 1999	FY 2000	FY 2000	FY 2001	FY 2001	Cost To	Total	Targe
	Method &	Location	PYs Cost	Cost	Award	Cost	Award	Cost	Award	Complete	Cost	Value o
ATTNIANICS	Type	1140014	000	1.10	Date		Date		Date		1101	Contrac
a. ATNAVICS	T&M	AMCOM	988	143	1 Qtr	150	1.0	150	1.0	0	1131	
b. MOTS	TBD	TBD	0	55	3 Qtr	150	1 Qtr	150	1 Qtr	0	355	
Subtotal Management Services:			988	198		150		150			1486	
Project D586				Page 4 of	5 Pages				Exhibit R-	·3 (PE 060	4633A)	
												Itom 97

ARMY	DATE Febru	99					
BUDGET ACTIVITY 5 - Engineering and Manufacturing	Development		R AND TITLE 3A Air Traffic (•	PR	ојест 586	
		W. 1000	FW 2000	FW 2001			
	Total PYs Cost	<u>Y 1999</u> Cost	FY 2000 Cost	FY 2001 Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Total Cost:	29906	1724	1981	2035		35646	26100
Project D586	Po	age 5 of 5 Pag	ges	Exh	nibit R-3 (PE 0604	1633A)	

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